"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

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of measuring external streams of x- and gamma-radiation, and methods of individual dosimetric monitoring; (5) Absolute and relative methods of measuring the activity of solid and liquid radioactive sources. There are four appendixes dealing with methods of calculating the total dosage from sources of ionizing radiation, units of activity, and doses from natural (background) radioactivity in the calcium of foodstuffs. Sanitary regulations observed during transportation, storage, and handling of radioactive substances are discussed, as well as the permissible level of ionizing radiation. The editors thank Yu.V. Sivintsev and D.P. Shirshov. References appear at the end of each chapter.

TABLE OF CONTENTS:

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREY, A.N.
P.2-3

PHASE I BOOK EXPLOITATION SOV/3589

Sbornik radiokhimicheskikh i dozimetricheskikh metodik (Collection of Radio-Chemical and Dosimetric Methods) Moscow, Medgiz, 1959. 459 p. Errata slip inserted. 9,000 copies printed.

Eds. (Title page): N.G. Gusev, U.Ya. Margulis, A.N. Marey, N.Yu. Tarasenko, Yu.M. Shtukkenberg; Ed. (Inside book): V.I. Labaznov; Tech. Ed.: A.I. Zakharova.

PURPOSE: This collection of articles is intended for physicists, sanitation and public health doctors, chemists and other specialists working in radioactive dosimetry.

COVERAGE: This work discusses the following subjects: (1) principles of organizing sanitation and dosimetric control in institutions where work is carried on with radioactive substances; (2)radio-chemical and chemical methods for determining certain radioactive substances in samples of air, water, soil and foodstuffs; (3) physical methods of measuring contamination of the air by radioactive gases and aerosols, and methods for determining the level of contamination of working surfaces, clothes and leather coverings; (4) methods

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREY, A. N.

"The Problem of Radioactive Waste Material."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

SHANDALA, M.G.; MAREY, A.N.

Discussion on G.D. Lebedeva's article "Plankton as an index of fresh water supply pollution by radioactive substances." Med. rad. 3 no.4:91-92 Jl-Ag '58. (MIRA 12:3)

1. Kafedra obshchey gigiyeny Dnepropetrovskogo meditsinskogo instituta (Shandala).

(WATER POLLUTION,
by radioisotopes, plankton as index (Rus))
(ISOTOPES,
water pollution, plankton as index (Rus)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREY, A.N.; SAUROV, M.M.; LEBEDEVA, G.D.

Passage of radiostrontium through the food chain from open water into human body [with summary in English]. Med.rad. 3 no.1:69-76 Ja-F '58. (MIRA 11:4)

(STRONTIUM, radioactive,
water & food contamination (Rus)
(WATER POLLUTION,
by radiostrontium (Rus)
(FOOD,
contamination by radiostrontium (Rus)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

SOV/26-58-12-8/44

AUTHOR: Marey, A.N., Candidate of Medical Sciences (Moscow)

TITLE: Radioactive Waste Products (Radioaktivnyye otkhody)

PERIODICAL: Priroda, 1958, Nr 12, pp 47-50 (USSR)

ABSTRACT: The author outlines the general danger involved in the disposal of radioactive waste products into the ground or bodies of water. The role of microorganisms and assimilation of radioactive substances by plants is considered. Ion exchange filters are thought to be the best protective means against ill radioactive effects. The idea of burying radioactive waste in the depths of the oceans, as suggested by American and British institutions, is rejected.
There are 3 Soviet references.

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MARZEYEV, A.N., prof.. Primali uchastiye: AGLITSKIY, S.S., prof.; VETOSHKIN, S.I., prof.; ZHABOTINSKIY, V.M., prof.; SMELYANSKIY, Z.B., prof.; MAREY, A.N., kand.med.nauk; SILIVANIK, K.Ye.. GORBOV, V.A., red.; SENCHILO, K.K., tekhn.red.; ZAKHAROVA, A.I., tekhn.red.

[Communal hygiene] Kommunal'naia gigiena. Pri uchastii S.S.Aglitskogo i dr. Izd.2., dop. i ispr. Moskva, Gos. izd-vo med.lit-ry, 1958. 554 p. (MIRA 13:1)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Marzeyev).

(PUBLIC HEALTH)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MARKY, Aleksandr Nikolayevich; TRAKHTMAN, N.N., red.; SENCHILO, K.K., tekhn. red.

[Sanitary protection of open waters from contamination by radioactive substances] Sanitarnaia okhrana otkrytykh vodoemov ot zagriaznenila radioaktivnymi veshchestvami. Moskva, Gos. izd-vo med. lit-ry, 1958. 89 p. (MIRA 11:7)
(RADIOACTIVITY--SAFETY MEASURES) (WATER--POLLUTION)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREY, A.N.

Hygienic evaluation of radioactive strontium as a factor in the pollution of the environment [with summary in English]. Med.rad. 2 no.5:89-95 S-O '57. (MIRA 11:2)

(ATOMIC WARFARE,
fallout, radiostrontium in pollution of external environment, review (Rus))
(STRONTIUM, radioactive,
pollution of external environment in nuclear explosions, review (Rus))

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREY, A.N.

USSR/General Biology - General Hydrobiology.

Abs Jour : Ref Zhur - Biol., No 5, 1958, [illegible]

Author : Marey, A.N.
Inst :
Title : Some Problems of Sanitary Protection of Reservoirs from Pollution by Radioactive Substances.

Orig Pub : Gigiena i sanitariya, 1956, No 9, 7-11

Abstract : A brief discussion of the problem of sanitary safety in atomic electrostations and measures of decontaminate their radioactive wastes, which contaminate reservoirs. In order to prevent a secondary pollution as a result of desorptions and transfer of activity [illegible] food.

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREY A.N., RYZHOV, A.I.

"Methods for Making a Special Sanitary Inspection of Open Bodies of Water Contaminated by Radioactive Substances". p. 40.

Trudy Vsesoyuznoy Konferentsii po Meditsinskoy Radiologii (Voprosy Gigiyeny i Dozimetrii) Medgiz, 1957, Moscow Russian, 0m.

Proceedings of the All-Union Conference on Medical Radiology (Hygienic and Dosimetric Problems).

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREY, A.M.

Radioactive wastes and public health problems. Med.rad. 1 no.4:3-7 Jl-Ag '56. (MLRA 9:12)

(RADIATION PROTECTION
radioactive wastes as problem in pub. health)
(PUBLIC HEALTH
protection from radioactive wastes)

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MA REY, A. N.

AID P - 2624

Subject : USSR/Medicine

Card 1/1 Pub. 37 - 1/22

Author : Marey, A. N., Kand. Med. Sci.

Title : Water organisms as sanitary indices of the pollution of reservoirs by radioactive substances

Periodical : Gig. i san., 8, 3-9, Ag 1955

Abstract : In connection with the wide use of radioactive isotopes in all fields of the national economy and the ensuing contamination of reservoirs, a method is presented for the control of the purity of water. Along with radiometric investigations, the author recommends tests to be performed on weeds, overgrowth, plankton, fishes etc. for determining the concentration of radioactive substances in reservoirs. The tests are described with tables. 8 refs., 1922 - 1954.

Institution : Institute of Industrial Hygiene and Occupational Diseases, Acad. Med. Sci USSR, Moscow

Submitted : Ap 25, 1955

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREY, A. N.

PA 59/49T90

USSR/Medicine - Water Purification Dec 48
Medicine - Public Health

"Water Supply Lines, Their Installation and Operation Under Sanitary Control," A. N. Marey, 4 pp

"Fel'dsher i Akusher" No 12

In 1937 the SNK SSSR passes a law, "On the Sanitation and Protection of Water Reservoirs," to safeguard water sources. Systems consist of a central water supply, filtering and purifying plants. Under sanitary control, the quality of the water is analyzed for residual chlorine, turbidity, color and taste, intestinal bacilli and total bacterial count.

59/49T90

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREY, A. N.

PA 28/49T75

USSR/Medicine - Water, Supply Oct 48
Medicine - Hygiene and Sanitation

"Sanitation Evaluation of the Quality of Drinking Water," A. N. Marey, 6 3/4 pp

"Fel'dsher i Akusherka" No 10

Discloses two basic characteristics for solving problem of quality of drinking water: determination of sanitation conditions of chemical and bacteriological compositions of water through laboratory tests, and on-the-spot examination of water sources.

28/49T75

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREY, A.I.; SIDOROVICH, Ye.A.

Effect of cis-trans isomerism and degree of cross-linking on the dynamic properties of the synthetic (SKD) cis-1,4-butadiene rubber. Kauch. i rez. 24 no.7:1-4 Jl '65. (MIRA 18:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S.V.Lebedeva.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

L 62997-65
ACCESSION NR: AP5016514

3

volume change during the crystallization process: maximum rate, half-life, and depth of crystallization. It has been established that by decreasing the length of the polyester segment of the chain, by increasing the degree of cross-linking, and by disturbing the orientation in the polymer by using one-step synthesis, it is possible to lower considerably the resins' crystallizability. Orig. art. has: 3 graphs and 4 tables.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka (All-Union Scientific Research Institute of Synthetic Rubber) 44,55

SUBMITTED: 10Aug64 ENCL: 00 SUB CODE: MT, GC

NO REF SOV: 003 OTHER: 000

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

L 62997-65 EWT(1)/EWT(m)/EWP(j)/T/EEC(b)-2 IJP(c) GG/RM

ACCESSION NR: AP5016514 UR/0190/65/007/006/1117/1121
678.01:53+678.66

AUTHORS: Apukhtina, N. P.; Marey, A. I.; Novikova, G. Ye.; Myuller, B. Ye.

TITLE: Crystallization of urethane elastomers

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 6, 1965, 1117-1121, and bottom half of insert facing p. 1043

TOPIC TAGS: crystallization, organic chemistry, elastomer, synthesis, rubber, urethane, polymer, resin

ABSTRACT: To minimize the crystallizability of the urethane resins, the effect of molecular weight of polyesters, the concentration of cross-linkages and the methods of synthesis have been studied. Urethane elastomers selected for this study were obtained from reaction of highly oriented polyesters with 2,4-stilbenediisocyanate. The dilatometric method of A. I. Marey, N. P. Kuznetsov, and G. Ye. Novikova (4-ya Nauchno-tekhnicheskaya konferentsiya po voprosam khimii i tekhnologii kauchuka i reziny (tezisy dokladov), Yaroslavl', 1962, 13) has been employed for this study. The crystallizability of the polymers was defined by means of 3 parameters determined graphically from the curve of the relative

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

L 14166-66 EWP(j)/EWT(m)/(T) RM/WW

ACC NR: AP6003943 SOURCE CODE: UR/0374/65/000/005/0085/0089

AUTHOR: Marey, A. I. (Leningrad); Sidorovich, Ye. A. (Leningrad)

ORG: none

44
B

TITLE: Dynamic and mechanical properties of heterogeneous polymer systems

SOURCE: Mekhanika polimerov, no. 5, 1965, 85-89

TOPIC TAGS: copolymer, ~~block~~ copolymer, rubber, butadiene, isoprene, ~~dynamic stress~~, ~~mechanical fatigue~~

ABSTRACT: The dynamic and mechanical properties of copolymers, block polymers, and rubber blends based on butadiene and isoprene have been investigated over a wide temperature range. The fundamental principles of dynamic behavior of heterogeneous polymer systems have been elucidated permitting the use of the above procedure for the determination of polymer compatibility, their content in blends, and of the composition of copolymer. Butadiene-isoprene copolymers were prepared by L. S. Bresler, and block copolymers by G. N. Petrov. Orig. art. has: 4 figures. [Based on author's abstract].

SUB CODE: 11/ SUBM DATE: 11Mar65/ ORIG REF: 008/ OTH REF: 002

Card 1/1 UDC: 678:620.168.3

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

L 45246-65

ACCESSION NR: AP5010846

ships obtain when the SKD rubber has partially crystallized. A similarity was established between the dynamic mechanical behavior of rubbers of various molecular weights in the temperature range of the highly elastic state. In the range of above-zero temperatures, the behavior of crystallizing and amorphous polymers is the same; at sub-zero temperatures, the dynamic properties of crystallizing rubbers decline appreciably owing to the development of crystallization phenomena whose role increases with the molecular weight. "The fractions were prepared by Ye. G. Erenburg using the method of fractional precipitation." Orig. art. has: 5 figures.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S. V. Lebedeva (All-Union Scientific Research Institute of Synthetic Rubber)

SUBMITTED: 00 ENCL: 00 SUB CODE: MT

NO REF SOV: 007 OTHER: 005

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

L 45246-65 EWT(m)/EPF(c)/EWP(j) Pc-4/Pr-4 RM
ACCESSION NR: AP5010846 UR/0138/65/000/004/0001/0004 21 19 B

AUTHOR: Marey, A. I.; Sidorovich, Ye. A.

TITLE: Effect of molecular weight on the dynamic mechanical properties of cis-1, 4-butadiene rubber SKD

SOURCE: Kauchuk i rezina, no. 4, 1965, 1-4

TOPIC TAGS: synthetic rubber, butadiene rubber, polyvinylacetate, rubber crystallization, rubber mechanical property, rubber molecular weight, rubber elasticity / SKD rubber

ABSTRACT: Laboratory samples of SKD rubber with molecular weights between 24,000 and 800,000 were studied at temperatures of -100 to 100C. The dynamic properties were measured with a KS pendulum elastometer. In the range of molecular weights of 100,000 to 800,000, a relationship was found between the rebound elasticity and the molecular weight which is expressed by the equation $90-E = K \times 1/M$, where E is the elasticity and $K=98 \times 10^5$. This permits a rapid evaluation of the molecular weight of rubber polymers. A simple relationship was also found between the rebound elasticity and temperature for natural rubber and polyvinyl acetate of various molecular weights; it applies to plastics as well. More complex relation-

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

L 59224-65

ACCESSION NR: AP5016879

0

ASSOCIATION: None

SUBMITTED: 26Dec64 ENCL: 00 SUB CODE: MT

NO REF SOV: 005 OTHER: 002

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Card 2/2

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

L 59224-65 EWT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 RM

ACCESSION NR: AP5016879 UR/0374/65/000/003/0015/0020
678:539.32

AUTHOR: Marey, A. I.(Leningrad); Sidorovich, Ye. A. (Leningrad); Novikova, O. Ya. (Leningrad)

TITLE: Influence of the crystalline phase in rubberlike polymers on their elasticity

SOURCE: Mekhanika polimerov, no. 3, 1965, 15-20

TOPIC TAGS: divinyl rubber, isoprene rubber, natural rubber, rubber elasticity

ABSTRACT: The article deals with the influence of crystallization of divinyl (SKD) and isoprene rubbers (NK, SKI-3, SKI) of regular structure on their elasticity in the transition temperature region. The elastic properties of the polymers were determined with a KS pendulum elastometer over a wide temperature range, and the data obtained were used to calculate the rebound elasticity and the dynamic elastic modulus. Crystallization was studied dilatometrically. Plots of the temperature dependence of the rebound elasticity are given for the range -120C to 0C. It was found that the formation of a crystalline phase in the rubber causes a uniform increase of the rebound elasticity in the transition region. A quantitative relationship was established between the minimum elasticity E_{min} and the content of the crystalline phase, showing that E_{min} can be used to evaluate the crystallinity of such polymers. Orig. art. has: 7 figures and 1 table.

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APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

GORELIK, B.M.; MAREY, A.I.; BUKHINA, M.F.; NOVIKOVA, G.Ye.; POMIRCHAYA, B.A.

Effect of filling with carbon black on the crystallation of rubber. Kauch.i rez. 23 no.11:13-18 N '64.

(MIRA 18:4)

1. Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti - Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S.V.Lebedeva.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

L 40560-65
ACCESSION NR: AT5004107

2

dium catalyzed polybutadiene) showed the best wear resistance, the resistance of butadiene-styrene copolymers increased with butadiene content, and the resistance of unfilled natural and synthetic rubbers decreased with temperature as the temperature approached the glass transition point of the polymer. At temperatures exceeding the glass transition point by 75C, the wear resistance of natural and various synthetic rubbers was approximately equal. Testing of various metals and polymers showed that an unfilled 10:90 styrene-butadiene rubber had almost twice the resistance of steel, with Teflon, polystyrene, and polymethyl methacrylate at the lower end of the resistance scale. The results are explained by the generation of comparatively low stresses on the surface of soft and elastic materials and by the relaxation mechanism after particle impact. The results were confirmed by commerical experience, e.g. with hoses of sand blowers or with transport belts. Orig. art. has: 5 tables and 1 figure.

ASSOCIATION: None

SUBMITTED: 05Aug64 ENCL: 02 SUB CODE: MT, IE

NO REF SOV: 003 OTHER: 001

Card 2/4

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

L 40560-65 EWT(d)/EWT(m)/EPF(c)/EWP(c [illegible])/EPR/EWP(j)/T/EWP(k)/EWP(l)
Pc-4/Pf-4/Pr-4/Ps-4 RPL WW/GS/RM

ACCESSION NR: AT5004107 S/0000/64/000/000/0216/0222

AUTHOR: Marey, A. I.; Izvozchikov, P. V.

TITLE: Determination of rubber wear in a stream of abrasive particles

SOURCE: Nauchno-tekhnicheskoye soveshchaniye po friktsionnomu iznosu rezin. Moscow, 1961. Friktsionnyy iznos rezin (Frictional wear of rubber); sbornik statey. Moscow, Izd-vo Khimiya, 1964, 216-222

TOPIC TAGS: rubber wear, frictional wear, rubber abrasion, abrasion tester, synthetic rubber, butadiene styrene rubber polybutadiene rubber, natural rubber, glass transition point

ABSTRACT: An apparatus for measuring the wear of rubber in a stream of abrasive particles under simulated service conditions is described and a theory is developed to explain the experimental results. A cylindrical channel of the specimen is exposed to particles of abrasive EB-100 moving at 80 m/sec. as shown in Fig. 1 of the Enclosure, and wear is defined as the volumetric loss per unit of time (cm^3/sec) referred to 1 cm^2 of the exposed channel surface. Low-modulus, high elasticity rubber types such as unfilled SKS-30A (70:30 butadiene-styrene copolymer) or SKB (so-

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where $\lg\tau_{1/2}$ is the log of the half-period of crystallization, $\lg\tau^0_{1/2}$ is the segment cut off by the straight line on the axis and corresponds to the half time of crystallization of the sample in the absence of crystallization; and B is a magnitude showing the effect of stress on crystallization and determined as the tangent of the angle of the slope of the characteristic straight line to the axis σ. For unstressed rubbers, the ability to crystallize increases with an increase in the carbon-black content. The same was observed for rubbers crystallizing under conditions of deformation (compression). The influence of filling depends on the type of transverse links. For natural rubber and SKI-3 with a predominant content of polysulfide links, there is a noticeable change in the parameters $\lg\tau^0_{1/2}$ and B. For rubbers with a predominant content of monosulfide links, filling changes these parameters very little. In the case of SKD, filling affects crystallization analogously. Orig. art. has: 5 figures, 1 table and 1 formula.

ASSOCIATION: Nauchno-issledovatel'skiy institut rezinovoy promy*shlennosti (Scientific Research Institute for the Rubber Industry); Vsesoyuzny*y nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S. V. Lebedeva (All-Union Scientific Research Institute for Synthetic Rubber)

SUBMITTED: 00 ENCL: 00 SUB CODE: MT
NO REF SOV: 004 OTHER: 004

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

L 17563-65 EWT(m)/EWP(j) Pc-4 RM
ACCESSION NR: AP4049782 S/0138/64/000/011/0013/0018

AUTHOR: Gorelik, B. M.; Marey, A. I.; Bukhina, M. F.; Novikova, G. Ye.; Pomirchaya, B. A.

TITLE: Effect of carbon-black filler on rubber crystallization

SOURCE: Kauchuk i rezina, no. 11, 1964, 13-18

TOPIC TAGS: rubber crystallization, natural rubber, synthetic rubber, carbon black filler, polysulfide crosslink, monosulfide crosslink, rubber elasticity

ABSTRACT: The literature on the effect of fillers is sparse and contradictory and applies only to natural rubber. This work is an attempt to expand the knowledge to both natural and synthetic rubbers. Two methods of investigation were used - a study of the crystallization of rubbers in the free state by the dilatometric method, and a study of deformed rubbers from the point of view of recoverability. A comparison was made of the kinetic curves obtained by the dilatometric methods those obtained from the change in recoverability. The kinetics of crystallization of natural rubber were studied at -25C, those of synthetic rubber SKI-3 at -25C and of rubber SKD at -38, -45, and -56C. Data on crystallization of deformed rubber were processed with the aid of the formula $\lg\tau_{1/2} = \lg\tau^0_{1/2} - B\sigma$,

Card 1/2

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

L 13815-65
ACCESSION NR: AP4047668

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S. V. Lebedeva (All-Union Scientific Research Institute for Synthetic Rubber)

SUBMITTED: 00 ENCL: 00 SUB CODE: OC

NO REF SOV: 002 OTHER: 010

Card 3/3

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

with decreasing temperature from -30 to -56-57C, but decreases with a further decrease in temperature. This maximum does not depend on the method of preparation nor on structural molecular factors. The kinetic parameters are calculated by Avrami's equations. They describe the process of crystallization with sufficient accuracy except in the initial and final stages, and can be used for the evaluation of the kinetics of crystallization of different polymers. The tabulated data on the relationship between intrinsic viscosity and crystallization show that with decreasing molecular weight, the crystallization decreases, the half-life increases and the degree of cystallization decreases. A decreasing degree of purity of the microstructure also decreases the crystallizability of the rubbers. A polymer containing less than 75% cis-1,4 structure does not crystallize. With increasing degree of polymerization, the crystallizability decreases. Infrared spectra show that the degree of polymerization does not affect the microstructure of rubbers, while the molecular weight of SKD samples usually decreases with increasing degree of polymerization. Thus, the decrease in molecular weight is apparently the main cause of the decrease in crystallizability resulting from the increase in the degree of polymerization. Orig. art. has: 3 figures, 3 tables and 2 formulas.

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L 13815-65 EWT(m)/EWP(j) Pc-4 RM

ACCESSION NR: AP4047668 S/0138/64/000/010/0007/0012

AUTHOR: Marey, A. I., Novikova, G. Ye., Kuznetsov, N. P.

TITLE: Crystallization of stereoregular butadiene rubbers

SOURCE: Kauchuk i rezina,, no. 10, 1964, 7-12

TOPIC TAGS: butadiene rubber, stereoregular synthetic rubber, dilatometry, rubber crystallization, rubber microstructure

ABSTRACT: The crystallization of stereoregular butadiene rubber was investigated at different temperatures and the effect of some structural factors such as molecular weight, degree of steric purity of the rubber microstructure and the degree of polymerization on the crystallization process was studied. The microstructural investigations were effected by infrared spectroscopy and the molecular wt. was characterized by the intrinsic viscosity. More than 300 batches of experimental and technical cis-1,4-butadiene rubber were investigated. The dilatometric method is proposed for determining the optimum temperature of crystallization of rapidly crystallizing rubbers in their mixtures with noncrystalline polymers. The crystallizability of the samples was studied over a temperature range of -30 to -77C. It was found that for all batches of SKD rubber the rate of crystallization increased

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L 12777-63

ACCESSION NR: AP3001528

On the other hand, at a vulcanization temperature of 280C both the vinyl and the inside double bonds are ruptured, with a simultaneous increase in CH sub 2 groups. A study of the thermovulcanization of cis-1,4-divinyl rubber showed that with an increase in temperature and heat duration the number of cis-1,4-links decreases considerably due to their rupture and transformation into the trans-form. Besides, there also takes place a break in the few double bonds in the position 1,2. The paper was presented at the conference on spectroscopy in Gor'kiy, June 5-12, 1961. N. G. MartemMM'yanova participated in the work. Orig. art. has: 2 charts.

ASSOCIATION: Nauchno-issledovatel'skiy institut sinteticheskogo kauchuka (Scientific Research Institute of Synthetic Rubber)

SUBMITTED: 00 DATE ACQ: 17Jun63 ENCL: 04

SUB CODE: 00 NO REF SOV: 002 OTHER: 003

Card 2/2

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L 12777-63 EPR/EWP(j)/EPF(c)/EWT(1)/EWT(m)/BDS AFFTC/ASD/ESD-3/
AFGC Ps-4/Pc-4/Pr-4 RM/WW
ACCESSION NR: AP3001528 S/0032/63/029/006/0710/0712

80
77

AUTHOR: Al'tshuler, M. Z.; Marey, A. I.; Nel'son, K. V.; Skripova, L. S.

TITLE: Study of thermal structuration in insoluble polymers by quantitative infrared analysis

SOURCE: Zavodskaya laboratoriya, v. 29, no. 6, 1963, 710-712

TOPIC TAGS: thermal structuration, insoluble polymer, infrared analysis, thermovulcanization, divinyl rubber, potassium bromide

ABSTRACT: An earlier development, the so-called "powder-state method," was used for qualitative determination of the microstructure of insoluble samples of polybutadienes. Soluble samples of rubbers, the structure of which was determined by infrared spectroscopy of their solutions, served as standards. Divinyl rubber samples of 0.005 gm were subjected to pressure trituration with 2 gm of potassium bromide, which served as an abrasive. This was facilitated by the addition of some carbon tetrachloride, lowering the elasticity of the insoluble polymers. The infrared spectra of the thus treated SKB rubber before and after 4 hours heating at 250 and 280C showed that at 250C there takes place a break of double bonds in the 1,2 position, while those in trans-position remain unaffected.

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S/138/60/000/002/001/009
A051/A029

The Effect of Functional Groups on the Vitrification Temperature of Rubber-Like Polymers

Thus, a conclusion is drawn that Formula 5 would be applicable to polymers, where the molecular links are arranged "head to tail", which corresponds to the lowest vitrification temperature of the polymer for a given composition. A satisfactory correlation was achieved between the experimental and theoretical computations of T_c in saturated and unsaturated polymers, which proves that the double bonds in the main chain of the macromolecule's primary valencies has apparently no effect on the T_c of the polymer. This conclusion has been confirmed by results obtained by other authors (Ref. 8), who found that T_c of natural rubber and gutta-percha does not change after deep hydration (the residual unsaturation being less than 8%). There are 2 tables and 8 references: 2 Soviet, 3 English, 2 German and 1 Italian.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S.V. Lebedeva (All-Union Scientific Research Institute of Synthetic Rubber imeni S.V. Lebedev)

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The Effect of Functional Groups on the Vitrification Temperature of Rubber-Like Polymers

the given polymer; K is the concentration of the functional groups, related to the four carbon atoms of the polymer chain. Each term in the Formula (4) is analyzed as to its probable significance. At the present time there is no information available on the magnitude of the interaction between the different atomic groups in polymers. Only certain data for organic liquids have been published (Refs. 2 and 3). These correspond only approximately to the energy values of the atomic group interactions in polymers (Table). Applying these figures to Formulae (1) and (2), the general Formula (4) can be expressed in the following form: $T_c = 0.02\ EK - 105$ (5), where: E and K are the cohesion energy of the functional groups and the concentration in the polymer chain, respectively. The validity of Formula 5 was confirmed by the satisfactory correlation between the computed and experimental values obtained on a series of polymers. A table, showing both experimental and computed values of T_c, is given, from which it is seen that a slight discrepancy exists between the computed values and the experimental ones of the ethylene and the propylene copolymer, probably due to the presence of symmetrically and adjacently located functional groups

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A051/A029

15.9201 2209 1153 1436

AUTHOR: Marey, A.I.

TITLE: The Effect of Functional Groups on the Vitrification Temperature of Rubber-Like Polymers

PERIODICAL: Kauchuk i Rezina, 1960, No. 2, pp. 1 - 3

TEXT: The author refers to a previous article (Ref. 1), where he proved that a linear relationship exists between T_c, the vitrification temperature of butadiene polymers, and K_1, the concentration of the vinyl groups in the polymer chains, as expressed in Formula 1. The present article deals with the results of the investigations, pointing out the linear relationship which also exists between the butadiene copolymers with styrene, and butadiene with nitrile of acrylic acid, as to vitrification temperature versus concentration. Formulae 2 and 3 show the respective relationships for the two copolymers, and Formula 4: $T_c = AK - 105$, combines the two expressions into one mathematical equation where: T_c is the vitrification temperature of the polymer in ^{o}C; A is the numerical coefficient, the value of which is determined by the nature of the functional group of

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The Production of Crystalline 1-4-Transpolybutadiene and -Polyisoprene and the Investigation of Their Properties

prior to the photographing of its infrared spectrum. The spectrum confirms the 1-4 trans-configuration. A curve of the deformation on repeated intensive heating was plotted. A table gives the density changes brought about by heating. The infrared spectrum of polyisoprene was photographed by K. V. Nel'son, and that of polybutadiene by Ye. I. Pokrovskiy, and the x-ray photographs were made by L. A. Volkova. There are 2 figures, 1 table, and 3 references, 1 of which is Soviet.

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR (Institute of High Molecular Compounds of the Academy of Sciences, USSR)
Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S. V. Lebedeva
(All-Union Research Institute for Synthetic Caoutchouc imeni S. V. Lebedev)

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

5(3) SOV/20-124-3-29/67

AUTHORS: Tinyakova, Ye. I., Dolgoplosk, B. A., Corresponding Member, Academy of Sciences, USSR, Marey, A. I., Al'tshuler, M. Z.

TITLE: The Production of Crystalline 1-4-Transpolybutadiene and -Polyisoprene and the Investigation of Their Properties (Polucheniye kristallicheskikh 1-4-trans-polibutadiyena i poliizoprena i izucheniye ikh svoystv)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 3, pp 595-597 (USSR)

ABSTRACT: A description is given of the production of the symmetric 1-4-transpolymers of butadiene and isoprene by the aid of oxide catalysts, in particular of chromium oxides on aluminium silicate. - Polyisoprene is stable, its infrared spectrum shows that 99% of the polymer chain possesses the 1-4 trans-configuration. The iodine number corresponds with the theory. Due to the uniform structure, the polymer crystallizes, which could be confirmed by the x-ray photograph. This x-ray photograph is analogous to that of natural β-gutta percha. - Polybutadiene is a crystalline-fibrous substance. As it is difficultly soluble it was pressed into a film

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SOV/138-59-2-3/24

Influence of the Polymerization Temperature of Butadiene with Alkali Metals on the Structure and Frost Resistance of Polymers

the glass temperature of the butadiene polymers is only defined by the content of vinyl groups and does not depend on their branched structure.
There are 2 figures, 2 tables and 12 references, 8 of which are Soviet and 4 English.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S. V. Lebedeva (All-Union Scientific Research Institute for Synthetic Rubber imeni S.V.Lebedev)

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Influence of the Polymerization Temperature of Butadiene wi . Alkali Metals on the Structure and Frost Resistance of Pol; ers

butadiene polymers containing a varying number of vinyl groups are given in Table 2. Formulae for calculating the concentration of butadiene chains in the polymer (S_v) are given, and it was found that the maximum concentration S_m equals 2, when S_v equals 1, which corresponds to polymers in which all the monomer molecules are added in the 1.2 position. The linear dependence between the glass temperature of the polymer T_s and the concentration of the vinyl groups (S_m) in the polymer chain is shown in a graph (Fig 2) and it is suggested that the content of vinyl groups can be defined according to the glass temperature. This was confirmed by B. A. Dolgoplosk et al. (Ref 12). Polymers obtained at a temperature of 80°C and above are not completely soluble which confirms a spatial or branched structure at sufficiently high plasticity. The separated pure insoluble part of the polymer had the same glass temperature as the soluble fraction. Therefore,

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groups in the polymer was defined according to the quantity of formic acid and formaldehyde in the ozonolysis products. Data in Table 1 indicate that an increase in the polymerization temperature in the given limits causes a substantial linear decrease in the content of vinyl groups in the polymers. This is particularly marked when butadiene is polymerized in the presence of lithium, and is observed to a much lesser degree when potassium is used. The difference in the reaction rates of the addition of butadiene molecules in the 1.2 and 1.4 position at a given temperature is defined by the various values of activation energies of these processes, and formulae are given for calculating the reaction rates and the activation energies. Fig 1: the dependence of the logarithm of the ratio of concentration of the 1.4 and 1.2 bonds on the polymerization temperature. It was found that the glass temperature of the butadiene polymer is a linear function of the concentration of vinyl groups. Glass temperatures for a number of

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SOV/138-59-2-3/ 4

AUTHORS: Marey, A. I., Rokityanskiy, I. V. and Samoletova, .V.

TITLE: Influence of the Polymerization Temperature of Butadiene with Alkali Metals on the Structure and Frost Resistance of Polymers (Vliyaniye temperatury polimerizatsii butadiyena shchelochnymi metallami na stroyeniye i morozostoykost' polimerov)

PERIODICAL: Kauchuk i rezina, 1959, Nr 2, pp 9-12 (USSR)

ABSTRACT: Butadiene polymers have an irregular micro- and macro-structure. This is also characteristic for polybutadiene and polymers obtained during polymerization in the presence of alkali metals and their organic compounds. The authors carried out experiments on the relation between conditions of alkali polymerization, the structure and the properties of the polymers, and investigated the dependence of the glass temperature of butadiene polymers on the content of vinyl groups whilst changing the polymerization temperature from 0 to 120°C in the presence of alkali metals (lithium, sodium and potassium). Data on the structural analysis of polymers by ozonization were published by A. I. Yakubchik et al. (Ref 6). The content of butadiene chains with vinyl

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A Method of "Express" Control for Rubber Mixes SOV/138-58-9-10/11

plattens. A stop watch 14 is started simultaneously with release of the load. The critical time is usually less than one minute. Loads and temperature are adjusted to give final gap, as indicated by virtual cessation of movement of the dial indicator, of 3 to 5 mm, within a time of 40 to 70 seconds. Load can be increased to 4 kg for harder specimens. Specimens of material which vulcanises rapidly are tested at lower temperature. The whole test procedure can be completed within 2 - 2½ minutes of preparation of the rubber mix. Reproducability of test results is said to be within 5%. Six months experience at the Red Triangle rubber footwear factory confirms the reliability and usefulness of this method of mix control. There are 3 Figures.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S. V. Lebedeva (All-Union Scientific Research Institute for Synthetic Rubber im. S.V. Lebedev)

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The relationship between the gap and the corresponding time of vulcanisation, however, remains constant. Provided that the terminal conditions give a point on, or near, the line, the content of vulcanising groups is constant. Limits for departure from the characteristic line can be set, so that mixes within the limits will have satisfactory properties. An apparatus termed a "condition meter" has been constructed to determine the factors of critical time and gap rapidly. It is illustrated in Fig.3. Samples are taken from the mixing rolls as thin sheets of the mix. These are formed in a hand press into specimens 16 mm diameter and 10 mm thick, and are dusted with talc. The specimens are put between the electrically heated copper plattens, 16 mm diameter (13 in the fig.). Temperature is controlled thermostatically to plus or minus 1°. Standard test temperature is 180°C, and standard load 1 kg. The load is applied to the specimens as quickly as possible to prevent pre-vulcanisation. The load is released by turning the knob 7. The movement of the load is measured by the dial indicator, 12, which actually measures the gap between

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the platten as it is heated under pressure, but the pressure on the sample will remain constant. The heated sample flows and the plattens move towards each other, vulcanisation takes place simultaneously, and as the two vulcanised 'fronts' of the sample come together, flow is diminished sharply. This is the limit of the critical time of vulcanisation. Measurement of time for flow to cease, and of the thickness of the specimen at this time, under fixed conditions of load and temperature, enables the properties of a rubber mix to be determined. Rate of flow depends primarily on the effectiveness of the vulcanising groups and the thermal conductivity of the rubber. Fig.1 shows gap between plattens versus time of vulcanisation for a mix with and without vulcanising groups. The critical time in the first case is 37 seconds, and the gap at that time, 3.8 mm. Fig.2 shows that a linear relationship exists between critical time and gap at that time. The different points were produced by applying different loads to similar specimens from the same mix. Rubber mixes of a given composition, but with different degrees of plasticity, give different values for the gap at the end of the test.

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

AUTHOR: Marey, A. I. SOV/138-58-9-10/11

TITLE: A Method of "Express Control" For Rubber Mixes (Metod ekspress-kontrolya rezinovykh smesey)

PERIODICAL: Kauchuk i Rezina, 1958, Nr 9, pp 34 - 36 (USSR)

ABSTRACT: For continuous production processes, rapid and reliable methods of controlling rubber mixes are required. Current methods of determining the plasticity of vulcanised samples require 1 to 2 hours to complete. The properties of rubber on vulcanisation can be determined not only from its modulus after a given curing time, but also from the time required to reach a certain stage of vulcanisation at which the mix ceases to flow. This is termed the critical time of vulcanisation. The critical time can be determined by heating a sample between two plattens under a constant load. The amount of flow under such conditions depends on two processes acting in opposition to each other: softening of the rubber under the action of elevated temperature, and hardening of the rubber through vulcanisation. If the diameter of an initial cylindrical sample is the same as the diameter of the plattens, the sample will spread beyond

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MAREY, A. I.

Rubber composition for galoshes. A. I. Marei. U.S.S.R. 104,049, Oct. 25, 1956. Not less than 30 parts by wt. of an oxidized mixt. contg. 70 parts petrolatum and 30 parts paraffin is added per 100 parts rubber for manuf. of galoshes. M. Hosak

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USSR/Chemical Technology. Chemical Products and Their Application -- Crude rubber, natural and synthetic. Vulcanized rubber, I-21

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6032

Abstract: stability to ozone is retained if the film is converted to a fused state due to heat generation during use of the article. To achieve stability against the development of surface cracks during dynamic deformations, under ordinary temperature conditions, it is necessary to treat the surface layer with substances having an amorphous structure. In addition, these substances must be plasticizers for rubber and have a high viscosity which prevents their diffusion into the body of the vulcanizate. Good results are obtained by a treatment of the surface (by immersion into melts, at 140-150°) with aldol-alpha-aphthylamine, rosin, bitumen, rubrax and also with their various combinations.

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MAREY, A. I.

USSR/Chemical Technology. Chemical Products and Their Application -- Crude rubber, natural and synthetic. Vulcanized rubber, I-21

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6032

Author: Marey, A. I., Divova, M. P.

Institution: None

Title: Prevention of Cracking of Rubber Articles by Swelling of Their Surface in Certain Media

Original Publication: Sb. Stareniye i utomleniye kauchukov i rezin i povysheniye ikh stoykosti. L., Goskhimizdat, 1955, 185-195

Abstract: There are considered various chemical and physical factors which enhance the resistance of vulcanizates to ozone cracking. A study was made of physical methods of preservation of vulcanizates, based on provision of a thin surface film of a substance that is inert in relation to ozone, of resin or wax type. Articles coated with the latter show good stability to ozone under static conditions, while integrity of the inert film is maintained. On dynamic deformations

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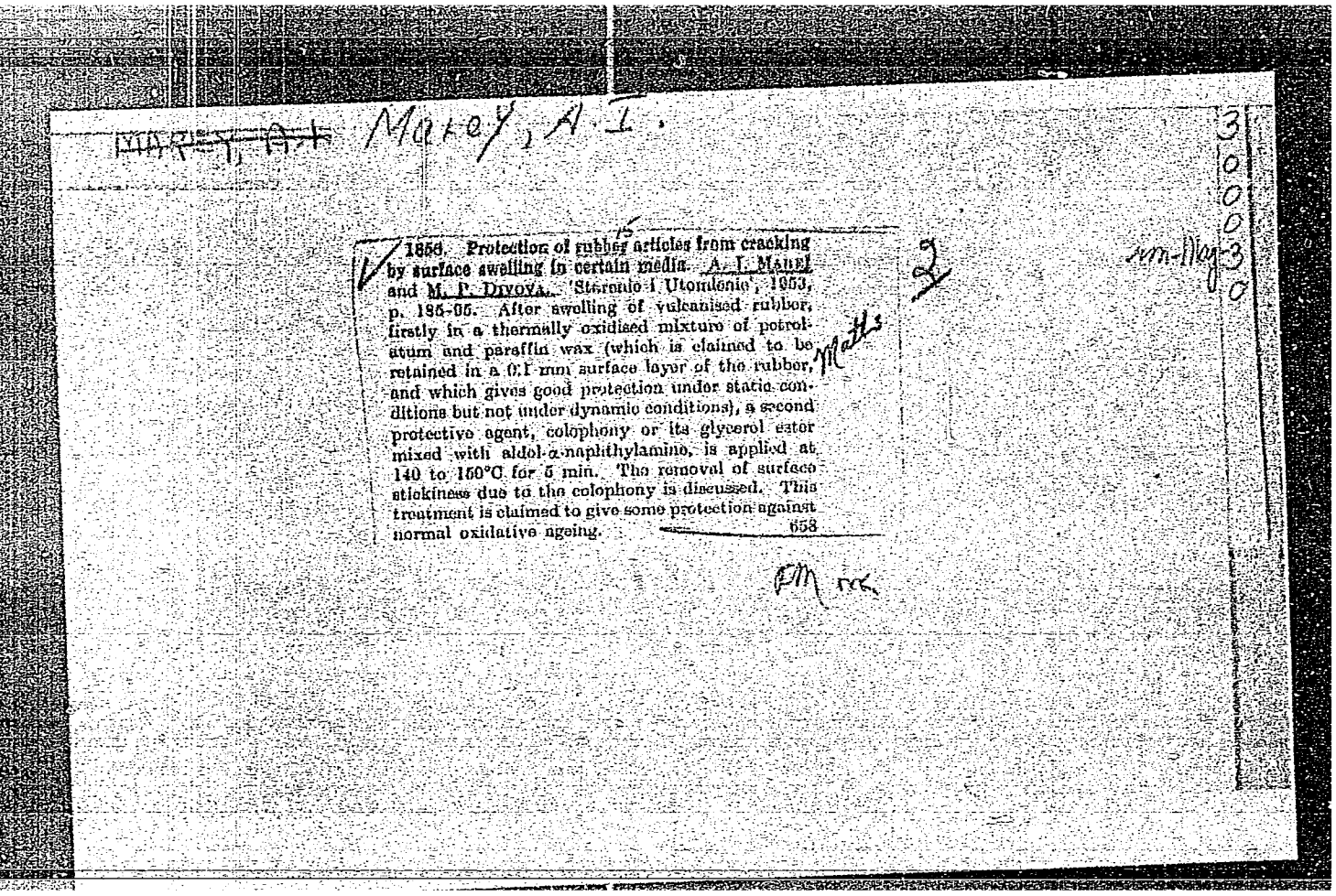

1850. **Protection of rubber articles from cracking by surface swelling in certain media.** A. I. Maizel and M. P. Divova. 'Stareniie i Utomlenie', 1953, p. 195-05. After swelling of vulcanised rubber, firstly in a thermally oxidised mixture of petrolatum and paraffin wax (which is claimed to be retained in a 0.1 mm surface layer of the rubber, and which gives good protection under static conditions but not under dynamic conditions), a second protective agent, colophony or its glycerol ester mixed with aldol-α-naphthylamine, is applied at 140 to 150°C for 5 min. The removal of surface stickiness due to the colophony is discussed. This treatment is claimed to give some protection against normal oxidative ageing. 658

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MAREY, A. I.

(2)

Mechanical method for the determination of the vitrification temperature of rubberlike polymers. A. I. Marei. *Khim. i Fiz.-Khim. Vysokomolekul. Soedinenii, Doklady 7-oi Konf. Vysokomolekul. Soedineniyam* 1952, 274–9.—A mech. method for the observation of the vitrification temp. for rubberlike polymers is described. It is based on the measurement of the deformation of a polymer on compression under a const. pressure. The vitrification temp. found in this manner is for natural rubber −71°; kok-saghyz −69°, gutta-percha −71° (supercooled from 80° to avoid crystn.), Buna-65 −65°, Buna-32 −52°, SK-B −54°, GR-S −64°; Buna SW-10 −75°, Buna S-3 −60°, Buna SS −30°, Perbunan 26 −43°, Perbunan 35 −32°, Hycar OR-25 −30°, Hycar OR-15 −23°, Neoprene-M −44°, Butyl rubber −69°, Oppanol −70°, Vistanex −70°. This agrees with data obtained by other methods. H. D. Noether

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MAREVSKAYA, A.P.

Physiological characteristics of the musculus levator palperbrae. Fiziol. zhur. 51 no.6:741-748 Je '65. (MIRA 18:6)

1. Kafedra normal'noy fiziologii Pediatricheskogo meditsinskogo instituta, Leningrad.

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KVASOV, D.G.; [illegible]

Stationary [illegible] of the gastric mucosa and its development [illegible] '63. [illegible]

1. From the Department of Physiology, Leningrad [illegible] Institute, Leningrad.

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREVSKAYA, A.P.

Participation of nasal muscles in the activity of the olfactory analyzer. Fiziol. zhur. 47 no.6:697-703 Je '61. (MIRA 15:1)

1. From the Department of Physiology, Paediatric Medical Institute, Leningrad.

(SMELL) (NOSE)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREVSKAYA, A.P.

Participation of nasal muscles in the activity of the olfactory analyzer. Fiziol. zhur. 47 no.6:697-703 Je '61. (MIRA 15:1)

1. From the Department of Physiology, Paediatric Medical Institute, Leningrad.

(SMELL) (NOSE)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

KVASOV, D.G.; MAREVSKAYA, A.P.

Stationary electrical potential of nasal and oral mucosae and its ontogenetic development. Fiziol.zhur. 45 no.8: 959-968 Ag '59. (MIRA 12:11)

1. From the Department of Physiology, Paediatric Medical Institute, Leningrad.
(NOSE, physiology)
(MOUTH, physiology)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREVSKAYA, A.P.

Effect of afferent impulses from the masticatory muscles on the activity of the salivation center. Fiziol. zhur. 44 no.3:212-218 Mr '58. (MIRA 11:4)

1. Kafedra normal'noy fiziologii Pediatricheskogo meditsinskogo instituta, Leningrad.

(MUSCLES, MASTICATORY, physiology
afferent impulses, eff. on activity of salivation center (Rus)
(SALIVATION, physiology
salivation center, eff. of afferent impulses from masticatory musc. (Rus)

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREVSKAYA, A.P., Cand Med Sci -- (diss) "Data for the physiology of the masticating muscles." Len , 1958, 16 pp (Len Pediatric$ Med Inst) (KL, 28-58) 110)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREVSKAYA, A.P.

Proprioceptive reflexes of the masseter muscles in ontogenesis [with summary in English]. Biul.eksp.biol. i med. 44 no.12:16-20 D '57. (MIRA 11:4)

1. Iz kafedry normal'noy fiziologii (zav. - prof. D.G.Kvasov) Leningradskogo pediatricheskogo meditsinskogo instituta (dir. - prof. N.T.Shutova). Predstavlena deystvitel'nym chlenom AMN SSSR M.S.Maslovym.

(MUSCLES, MASTICATORY, physiology, proprioceptive reflexes, develop. in cats (Rus))

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

USSR / Human and Animal Physiology (Normal and Pathological). T
Nervous System.

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 60696

also a crossed reflex of stretching, indicated the capacity for radiation of the proprioceptive impulses. Super-strong stimulation (800 h. for cats and 500 h. for rabbits) produced a biphasic reaction, in which exaltation was changed to the decrease in amplitude and frequency of the electrical fluctuations, which is regarded as a pessimal inhibition of the centers. -- T. G. Beteleva

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

USSR / Human and Animal Physiology (Normal and Pathological). T
Nervous System.

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 60696

Author : Marevskaya, A. P.
Inst : Not given
Title : The Stretch Reflexes of the Mastication Muscles in Adult Animals

Orig Pub : Fiziol. zh. SSSR, 1957, 43, No 9, 887-893

Abstract : In intact and decorticated cats and rabbits under ether anesthesia, the stretching of the mastication muscles led to the increase in the fluctuation amplitude on EMG. The emergence of electrial activity in the chewing muscles and strengthening of breathing in a moderate stretching of one partly separated from the jaw chewing muscle, mutually reinforcing the activity of the simultaneously occurring particular reflexes of different muscles, and

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREVICH, N.V.; ROMANOV, A.V.

Preliminary results of observing rock pressure on supports made of monolithic reinforced concrete in the shield system of mining with filling. Vop. gor. davl. no.7:19-26 '61. (MIRA 18:7)

1. Institut gornogo dela Sibirskogo otdeleniya AN SSSR.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREVICH, N.V.

Question of using the shield system of mining with filling.
Trudy Inst. gor. dela Sib. otd. AN SSSR no.3:339-356 '60.
(MIRA 14:4)

(Coal mines and mining)
(Mine filling)
(Mine timbering)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREVICH, N.V.

Spontaneous ignition of Tom'-Usa deposit coal in the Kuznetsk Basin. Trudy Inst.gor.dela Sib.otd.AN SSSR no.2:141-166 '59. (MIRA 13:5)

(Kuznetsk Basin--Coal mines and mining--Fires and fire prevention) (Combustion, Spontaneous) (Tom' Valley--Coal--Testing)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREVICH, N.V.

Methods of erecting concrete pillars in mines. Trudy.Inst.gor. dela Sib.otd. AN SSSR no.2:21-36 '59. (MIRA 13:5)
(Mining engineering) (Concrete construction)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREVICH, N.V., kand.tekhn.nauk

N.A. Chinakal, corresponding member of the Academy of Sciences of the U.S.S.R.; on his 70th birthday. Ugol' 33 no.11:44 N '58.
(MIRA 11:11)

(Chinakal, Nikolai Andreevich, 1888-)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREVICH, N. V. and DZYUBENKO, V. T. (Mining Inst. of the Siberian Branch of AS USSR)

"Experience in the use of Shield Conveying Systems."

report presented at a Sci.-Tech. Conf. on Improving the Exploitation System in coal Beds, called by Mining Inst, AS USSR, at Prokop'yevsk 20-22 Jan 1958.
(Vest. Ak Nauk SSSR,'58, No.4, 105-7, author Lyakhov, G. M.)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREVICH, N.V.

Spontaneous ignition of coals in the Alykayev and Mazurova formations in the Balakhonka series of Kuznetsk Basin. Trudy Inst. gor.dela.Sib.otd.AN SSSR no.1:63-75 '58. (MIRA 12:11)
(Kuznetsk Basin--Combustion, Spontaneous)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREVICH, N.V.

Preparation and use of materials from burning waste piles in the Kuznetsk Basin. Trudy Inst.gor.dela.Sib.otd.AN SSSR no.1: 49-53 '58. (MIRA 12:11)
(Kuznetsk Basin--Waste products)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREVICH, N.V., kand.tekhn.nauk, starshiy nauchnyy sotrudnik

N.A.Chinakal, corresponding member of the Academy of Sciences of the U.S.S.R.; on his 70th birthday. Trudy Inst.gor.dela.Sib. otd.AN SSSR no.1:7-10 '58. (MIRA 12:11)

1. Institut gornogo dela Sibirskogo otdeleniya AN SSSR.
(Chinakal, Nikolai Andreevich, 1888-)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREVICH, N.V.

Relationship between the duration of the effect of atmospheric oxygen on spontaneous combustibility of Prokop'yevsk coals in the Kuznetsk Basin. Trudy Gor.-geol. inst. Zap.-Sib. fil. AN SSSR no.18:81-89 '56. (MIRA 13:11)

(Kuznetsk Basin--Coal) (Combustion, Spontaneous)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREVICH, Nadezhda Viktorovna; SOBOLEV,G.G., redaktor; GRISHAYENKO,M.I., redaktor; IL'INSKAYA,G.M., tekhnicheskiy redaktor

[Spontaneous combustion of thick coal seams in the Prokop'ev deposit, Kuznetsk Basin] Samovozgoranie uglia moshchnykh plastov prokop'evskogo mestorozhdeniia kuzbassa. Moskva, Ugletekhizdat, 1955. 135 p. (MLRA 9:2)
(Kuznetsk Basin--Coal mines and mining) (Combustion, Spontaneous)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREVICH, N. V.

Fuel Abstracts
Vol. XV, No. 2
February, 1954
Natural Solid
Fuels: Winning

1028. TENDENCY TO SPONTANEOUS IGNITION OF PETROGRAPHIC TYPES OF COAL IN PROKOP'EVSK DEPOSIT IN KUZBASS. Marevich, N.V. and Travin, A.B. (Izv. Akad. Nauk SSSR, Otdel. Tekh. Nauk (Bull. Acad. Sci. U.S.S.R., Sect. Tech. Sci.), August, 1953, 1110-1117). The first stage of investigations showed that different types of coal from the same place had different tendencies to oxidation and sorption and hence to spontaneous ignition. Both tnedencies were less with dull and semi-dull durains and greater with tectonically compressed vitrain-fusains and vitrains. Oxidation of bright coals was more rapid at first, then slowed down; that of dull coals was generally less intense.

(2) Geo

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREVICH, N. V.

29043 Analiz samovozgora iya uglya pri shchitovoy sisteme razkabotki. Trudy gorno-geol IN-TA (Akad. nauk SSSR, Zap. -- Sib. filial), vyp. 4, 1949, s. 19-37 -- Bibliogr: 10 nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 39, Moskva, 1949

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREVICH, A.M. (Moscow); FILIPPOVA, L.F. (Moscow)

Formation of hydrogen peroxide in the oxidation of formaldehyde.
Zhur. fiz. khim. 31 no.12:2649-2655 D '57. (MIRA 11:4)

1.Akademiya nauk SSSR, Institut khimicheskoy fiziki, Moskva.
(Formaldehyde) (Oxidation) (Hydrogen peroxide)

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

ACC NR: AP7000703

separating rhenium from molybdenum in a sulfuric acid medium, to the choice of a proper tributyl-phosphate solvent and to the explanation of the reaction of hydrochloric acid and of chlorides upon the extraction. It was established experimentally that if extraction is repeated twice in a medium with 2 N sulfuric acid and 0.5 N chlorine ion concentrations, an almost complete separation of rhenium from molybdenum occurs. Cyclohexane was found to be the best solvent. A six-minute treatment of the extract with 40 ml of water and 30 ml of chloroform for re-extraction of rhenium proved most effective. The 0.5 N chlorine ion solution was acidified with sulfuric acid within 2 N limits and extracted twice during a three-minute period in 10 ml each of tributyl phosphate and cyclohexane. After washing out the extracting agent, rhenium can be reextracted from the organic phase in six minutes by using 40 ml of water and 30 ml of chloroform. The paper was presented by the corresponding member of the Academie, N. Pentschev, on 20 June 1966. Orig. art. has: 2 figures and 1 table. [DR]

SUB CODE: 07/SUBM DATE: none/SOV REF: 003/OTH REF: 007/

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

ACC NR: AP7000703 SOURCE CODE: BU/0011/66/019/010/0913/0916

AUTHOR: Jordanov, N.; Mareva, St.

ORG: Institute of General and Inorganic Chemistry, Bulgarian Academy of Sciences (Institut fur allgemeine und anorganische Chemie, Bulgarische Akademie der Wissenschaften)

TITLE: Separation of rhenium from molybdenum by extraction with tributyl phosphate

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 19, no. 10, 1966, 913-916

TOPIC TAGS: rhenium, molybdenum, cyclohexane, tributyl phosphate, rhenium separation from molybdenum

ABSTRACT: Research has been done on the development of a method for extracting rhenium from molybdenum; this method could be combined with the distillation method described in 1963 by N. Jordanov and M. Pavlova (N. Jordanov, M. Pavlova. Mikrochim. acta. 3, 1963, 477). Tributyl phosphate proved especially suitable as the extracting agent. Special attention was paid to the problem of

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MAREVA, St.; KHRISTOVA, R.

Determining the silicon dioxide in iron ore containing barium sulfate. Doklady BAN 14 no.7: '61.

1. Predstavleno chl. korr. N. Penchevym.

(Iron ores) (Silicon) (Barium)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MOKHOV, L.A.; MAREVA, N.S.

Rapid method of determining the concentration of hydrogen peroxide vapors. Zhur.prikh.khim. 35 no.11:2573-2574 N '62. (MIRA 15:12)
(Hydrogen peroxide) (Air--Analysis)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MARKULIC, D.

What kind of economic organization would meet the needs of our fishermen?

P. M (POMORSKO PREDUZECE) (Sibenik, Yugoslavia) Vol. 10, no. 2, Feb. 1958

SO: Monthly Index of East European Accessions (EMAI) LC Vol. 7, No. 5, 1958

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MARETSKIY, Sergey Konstantinovich; POLYAKOV, B.F., red.; BELOUSOVA, L.I., tekhn.red.

[Tiraspol'; historical-geographic study] Tiraspol'; istoriko-geograficheskii ocherk. Kishinev, Gos.uchebno-pedagog.izd-vo Moldavskoi SSR, "Shkoala Sovetike," 1958. 102 p. (MIRA 13:2)
(Tiraspol'--Economic conditions) (Tiraspol'--History)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MARETSKIY, S. K.

14-57-6-12992

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 6, p 166 (USSR)

AUTHOR: Maretskiy, S. K.

TITLE: Settlement of the City of Tirasopol' and its Environs at the End of the 18th and First Half of the 19th Centuries (K voprosu o zaselenii g. Tiraspolya i yego okrestnostey v kontse XVIII i pervoy polovine XIX vv.)

PERIODICAL: Uch. zap. Tirasopol'sk. ped. in-ta, 1956, Nr 1, pp 33-39

ABSTRACT: Bibliographic entry

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APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MARETSKIY, S., inzhener

Aircraft engine instruments. Kryl.rod. 3 no.8:15-19 Ag '52. (MLRA 8:8)
(Aeronautical instruments)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MARETSKIY, Anatoliy Viktorovich; NAUMOVA, I.A., red.

[Mechanization of hay and straw harvesting; from the practices of collective and state farms in Arkhangel and Vologda provinces] Mekhanizatsiia uborki sena i soломy; iz opyta kolkhozov i sovkhozov Arkhangel'skoi i Vologodskoi oblastei. Arkhangel'sk, Severo-Zapadnoe knizhnoe izd-vo, 1965. 70 p. (MIRA 18:10)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MARETSKAYA, YE.

Machine-Shop Practice

Pouring babbit metal in making connecting rod bushings by the liquid stamping method., MTS, 12, no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953. Unclassified.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MARETSKAYA, M.F., dots. (Moskva)

Features of the course of benign lymphoreticulosis (cat scratch disease). Klin.med. 36 no.12:104-109 D '58. (MIRA 12:6)

(CAT SCRATCH DISEASE, manifest.
(Rus))

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MARETSKAYA, M.F.

Congenital hemolytic anemia with granulopenia. Pediatriia 36 no.11: 74 N '58. (MIRA 12:8)

1. Iz Ketskoy ob"yedinennoy bol'nitsy No.18 Sovetskogo Rayona Moskvy.
(ANEMIA)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MARETSKAYA, M. F. dotsent.

Infectious disease caused by cat bite or scratch. Sov. med. 19 no.11: 45-48 N '55. (MIRA 9:1)

1. Iz gorodskoydetskoy infektsionnoy bol'nitsy No 8 Moskvy (glavnyyvrach P. F. Krasnova, konsul'tant - dotsent M. F. Maretskaya)
(CAT SCRATCH DISEASE, case reports)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MARETSKAYA, M.F., dotsent

Metabolic bone disease and rickets; etiology and pathogenesis of metabilic bone disease. Pediatriia no.3:57-65 My-Je '54.
(MLRA 8:1)

1. Iz kafedry detskikh bolezney (direktor - chlen-korrespondent Akademii meditsinskikh nauk SSSR professor Yu.F.Dombrovskaya) I Moskovskogo ordena Lenina meditsinskogo instituta.
(RICKETS) (BONES--DISEASES)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MARETSKAYA, M.F.; BAYADINA, S.A.; GARELIK, O.S.; GEYSHINA, R.V.; BONDARENKO, T.V.; SHISHOVA, Ye.M.

Pneumonia in infants. Sovet. med. 17 no.7:30-32 July 1953. (CIML 25:1)

1. Of the Clinic for Children's Diseases (Director -- Prof. Yu. F. Dombrovskaya, Corresponding Member AMS USSR) of First Moscow Order of Lenin Medical Institute, Frunzenskiy Rayon Children's Hospital (Head Physician -- F. I. Fefer), and the Children's Division (Head -- R. V. Geyshina) of Polyclinic No. 56.

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MARETSKAYA, M.F.; ISAYEVA, L.A.

Fibrous dysplasia. Pediatriia, Moskva No.6:51-56 Nov-Dec 51. (CIML 21:4)

1. Docent Maretskaya. 2. Of the Clinic for Children's Diseases (Director Honored Worker in Science Prof. V.I. Molchanov, Active Member of the Academy of Medical Sciences USSR), First Moscow Order of Lenin Medical Institute.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MARETSKAYA, M.F.; ZVONITSKAYA, T.M.

Hypertonia in scarlet fever in children. Sovet.med. no.3:9-10 Mr '50. (CIML 19:2)

1. Of the Department of Children's Diseases, First Moscow Order of Lenin Medical Institute (Director of Department -- Prof. V.I.Molchanov).

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MARENSKAYA, M. F.

Marenskaya, M. F. and Kurcatova, N. D. "Osteopathy for children," Trudy VI Vsesoyuz. s'yezda det. vrachey, posvyashch. pamyati prof. Filatova, Moscow, 1948, p. 232-35

SO: U-3244, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, No. 3, 1949)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

MARETINA, S. A.

"Obshchina u malykh narodov Assama."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences, Moscow, 3-10 Aug 64.

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L 26052-66

ACC NR: AP5025123

2

with π-electrons of multiple bonds. By the action of trialkylchlorsilanes on the Iotsich complexes/obtained from the single amines of $HC{\equiv}C\text{-}CH\text{-}CH\text{-}NR_2$, two silicon containing acetylene enamines of $R_3Si\text{-}C{\equiv}C\text{-}CH{=}CH\text{-}NR_2$ type were synthesized, where $R{=}CH_3$ and C_2H_5. The dipole moments of the silicon-containing acetylene amines are greater than those of the original 1, 3-single amines by 0.4-0.8D. This fact is interpreted as the result of a d-orbit participation of the silicon atom in the conjugation. Orig. art. has: 2 fig.

SUB CODE: 07,20/ SUBM DATE: 090ct64/ ORIG REF: 006

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

L 26052-66 EWT(m)/EWP(j) IJP(c) JW/RM

ACC NR: AP5025123 SOURCE CODE: UR/0079/65/035/010/1720/1723 81/79 B

AUTHOR: Petrov, A. A.; Maretina, I. A.; Mingaleva, K. S.

ORG: Leningrad Technological Institute imeni Lensovet (Leningradskiy tekhnologicheskiy institut)

TITLE: Silicon-containing acetylene enamines

SOURCE: Zhurnal obshchey khimii, v. 35, no. 10, 1965, 1720-1723

TOPIC TAGS: silicon compound, silane, electron density, secondary amine, magnetic resonance, dipole moment, hydrogen bonding, organic synthetic process, acetylene

ABSTRACT: A study of the physical properties of 1, 3 amines of the R_2N-CH=CH-C≡CH type made it possible to hypothesize the strong displacement of the electron cloud in their molecules to the side of the triple bond. These compounds have a considerably higher dipole moment than the saturated amines; the nitrogen atom does not seem inclined to hydrogen bond formation; and the magnetic resonance signal of the acetylene proton indicates strong shielding. The purpose of the work was to determine how the electron density distribution is changed in a system during introduction into the chain of a silicon atom capable of d,π-reaction

Card 1/2 UDC: 547.333.3:547.345

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

PETROV, A.A.; MARETINA, I.A.; MINGALEVA, K.S.

Silicon-containing acetylenic enamines. Zhur. ob. khim. 35 no.10:1720-1723 O '65. (MIRA 18:10)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001032320013-6

ACCESSION NR: AP4037061 S/0079/64/034/005/1685/1685

AUTHOR: Maretina, I. A.; Petrov, A. A.

TITLE: Dialkyl(vinylacetylenyl)phosphines

SOURCE: Zhurnal obshchey khimii, v. 34, no. 5, 1964, 1685

TOPIC TAGS: dialkyl(vinylacetylenyl)phosphine, dibutyl(3-buten-1-ynyl)phosphine

ABSTRACT: Previously unknown enyne-substituted phosphines have been prepared at the Leningrad Technological Institute imeni Lensovet. The new phosphines are readily obtained by treating an enynylmagnesium bromide with a dialkylbromophosphine in ethyl ether under nitrogen. Dibutyl(3-buten-1-ynyl)phosphine thus prepared had the following constants: b_3, 92C; d_{20}, 0.8602; n_D^{20}, 1.5110. The presence in this phosphine of the conjugated vinylethynyl group was confirmed by IR spectroscopy.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut imeni Lensoveta(Leningrad Technological Institute)

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MARETINA, I. A.; PETROV, A. A.

Synthesis and properties of crystalline dodecane-2,2,7,7-tetramethyloctane. Zhur. ob. khim. 32 no.12:3898 D '62. (MIRA 16:1)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

(Octane) (Dodecane)

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PETROV, A.A.; LEBEDEV, V.B.; MARETINA, I.A.; YELSAKOV, N.V.

Nuclear magnetic resonance spectra of enynes and the -effect. Zhur.ob.khim. 32 no.5:1711-1712 My '62. (MIRA 15:5)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Hydrocarbons--Spectra)

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